

## LOCKING AND DRIVE UNIT FOR A ROTATING BODY, IN PARTICULAR FOR MOTOR VEHICLE WHEELS IN A BALANCING MACHINE

### ABSTRACT

5 The locking and drive unit comprises, for supporting the rotating body (10) and rotating it about an axis A, a motorized main shaft (20) carrying flange means which define a counteracting surface (26) for the rotating body; and pressing means (31, 32) coaxial with the shaft (20) to axially press the rotating body (10) against said counteracting surface (26) and to lock it  
10 relative thereto; a traction rod (40) is associated with the main shaft (20), is movable axially relative thereto and is connected to the pressing means (31, 32) to pull them against the counteracting surface (26). Elastic thrust means (45) are connected to the traction rod (40) to axially pull, via this latter, the pressing means (31, 32) against the counteracting surface (26)  
15 to lock the rotating body relative thereto. The invention comprises an impact damping means (60) acting by mutual movement of two of its elements (61, 62) in the same direction as the axis of the main shaft (20) when the traction rod (40) is moved in the sense of pulling the pressing means (31, 32) towards the counteracting surface (26), one of said  
20 elements (61, 62) being rigid with the main shaft (20) and the other element being rigid with the traction rod (40).